THE INSTITUTE OF PHYSICS AND
THE PHYSICAL SOCIETY

BULLETIN

Edited by
NORMAN CLARKE, B.Sc., F.Inst.P.
Deputy Secretary, The Institute of Physics and The Physical Society

Volume 13
1962

47 BELGRAVE SQUARE, LONDON, S.W.1

CONTENTS OF VOLUME 13

PAGE

JANUARY 1962

A new look for school physics. By N. CLARKE 1
The American physical science study committee course. By B. E. LORD and W. R. RITCHIE 3
The teaching of modern physics in schools. By J. L. LEWIS 6
Physics in girls' schools. By Sister St. Joan of Arc 9
Notes and news 11
Mathematics in schools. By G. A. P. WYLLIE 12
The Rutherford jubilee international conference. By W. R. PHILLIPS 14
The British program of space research. By A. P. WILMORE 17
Reviews of books 19
Forthcoming Institute and Society meetings 24
Manuscripts accepted for publication in the Institute and Society's periodicals 28

FEBRUARY 1962

Higher education in physics 33
Notes and news 41
Musical scales—their characteristics and appreciation. By M. MILBOURN 42
Some thoughts on the teaching of science. By R. A. R. TRICKER 47
Reviews of books 50
Branch and group committees 54
Forthcoming Institute and Society meetings 56
The register 57
Manuscripts accepted for publication in the Institute and Society's periodical 61

MARCH 1962

Traffic management in London. By G. CHARLESWORTH 65
New Scottish syllabuses and examinations in school physics. By D. MCGILL 72
The work of the physics panel of the science and education committee of the S.M.A./A.W.S.T. By E. W. TAPPER 75
Appeal for the Physics Trust Fund 78
The craftsmanship and draughtsmanship competition, 1962 79
News of members 83
Notes and news 85
1962 exhibition of scientific instruments and apparatus 85
Reviews of books 86
Letters to the editor 88
Forthcoming Institute and Society meetings 89
Manuscripts accepted for publication in the Institute and Society's periodicals 90

PAGE

APRIL 1962

Science, technology and civilization. By PROFESSOR R. V. JONES 97
Some desirable changes in school physics teaching. By C. B. SPURGIN 104
Modern magnetic materials. By K. HOSELITZ 107
The register 113
Reviews of books 117
Notes and news 119
Forthcoming Institute and Society meetings 121
Manuscripts accepted for publication in the Institute and Society's periodicals 122

MAY 1962

A university applied physics department. By PROFESSOR D. A. WRIGHT 129
Forthcoming Institute and Society meetings 131
Notes and news 131
Report of the Council of The Institute of Physics and The Physical Society for the year 1961 133
Reviews of books 154
Manuscripts accepted for publication in the Institute and Society's periodicals 157

JUNE 1962

Physics in archaeology. By G. N. FOWLER 165
Scientific method and selection techniques. By R. LEMOINE 170
The register 176
Notes and news 179
Appeal for the Physics Trust Fund 180
Reviews of books 181
Forthcoming Institute and Society meetings 184
Manuscripts accepted for publication in the Institute and Societies journals 184

JULY 1962

Limits of perception and measurement. By PROFESSOR A. M. TAYLOR 189
The problem of conference reports. By J. M. ZIMAN 196
Notes and news 198
Harrogate convention 200
Reviews of books 204

PAGE

AUGUST 1962

Bubble chambers and other visual techniques in nuclear physics. By I. S. HUGHES 213
Preparation of papers accepted for publication in the Institute and Society's journals. By A. C. STICKLAND 219
Reviews of books 221
News of members 227
Forthcoming Institute and Society meetings 228
The register 229
Notes and news 232

SEPTEMBER 1962

A background to science in Japan—a subjective account. By A. L. MACKAY 233
Conference on 'the teaching of solid state physics.' By N. THOMPSON 235
Letters to the editor 238
Notes and news 240
Reviews of books 242
Forthcoming Institute and Society meetings 248
The Graduateship examination 1962 251

OCTOBER 1962

Development in vehicle and street lighting. By V. J. JEHU 269
International conference on the physics of semiconductors, Exeter, July, 1962. By J. R. DRABBLE 277
Reviews of books 280
Letters to the editor 285
Notes and news 285
Forthcoming Institute and Society meetings 288

NOVEMBER 1962

Scientific method. By J. J. SPARKES 289
The teaching of physics. By PROFESSOR A. M. TAYLOR 295
Notes and news 299
Courses for the Graduateship examination 300
Forthcoming Institute and Society meetings 301
National Certificates in Applied Physics: 1962 examinations 302
Reviews of books 304
The register 309

DECEMBER 1962

Physics, metaphysics and theology in the twentieth century. By J. WREN-LEWIS 313
Modern physics teaching and the transition from school to university. By G. A. P. WYLLIE 319
The Institute and Society's meetings. By H. R. LANG 322
Notes and news 324
Letters to the editor 326
Forthcoming Institute and Society meetings 327
Reviews of books 328
News of members 338

Index to Volume XIII

SUBJECTS

PAGE

Addresses wanted . . . 287
American Physical Science Study Committee Course, The, by B. E. Lord and W. R. Ritchie . . . 3
American translation journals . . . 180
Annual exhibition of scientific instrument and apparatus, 1962 . . . 85
Annual exhibition of scientific instruments and apparatus, 1963 . . . 240, 299, 324
Annual general meeting . . . 131, 179, 232
Annual representative meeting . . . 198
Appeal for the physics trust fund . . . 78, 180
Automatic Control . . . 199
Autumn meeting on optical masers . . . 132
Background to Science in Japan—a subjective account, A, by A. L. Mackay . . . 233
B.C.A.C. annual lecture . . . 232
Bequests to the Institute and Society . . . 241
Binding of the *Bulletin* . . . 11
Birthday honours . . . 232
Booklets concerning the Institute and Society's activities . . . 212
Branch and group committees . . . 54
British Journal for the History of Science . . . 286
British Nuclear Energy Society, The . . . 299
British Program of Space Research, The, by A. P. Wilmore . . . 17
Bubble Chambers and Other Visual Techniques in Nuclear Physics, by I. S. Hughes . . . 213, 241
Childrens' Christmas lecture . . . 324
Change of group name . . . 324
Christmas holiday . . . 324
Conference on diffusion and mass transport in solids . . . 88
electronic processes in dielectric liquids . . . 199
h.f. communications . . . 240
the design and use of microwave valves . . . 325
high magnetic fields, their production and their applications . . . 324
the liquid state, . . . 325
the ionosphere . . . 82
the teaching of solid state physics . . . 82, 235
ultra high energy nuclear physics . . . 199, 227, 312
vacuum techniques . . . 240
x-ray diffractometry . . . 241
Correspondence—
Errors in textbooks and the tradition of physics teaching. (H. Steels) . . . 88
Evidence to the Robbins Committee. (A. E. De Barr; R. V. Jones; K. W. Hillier) . . . 238, 326
Ionising radiations. (D. D. Carruthers and D. T. Turnbull) . . . 88
Limits of Perception and Measurement. (S. G. Lipson; A. M. Taylor) . . . 327
Problems of conference reports, The. (C. W. McCutchen) . . . 285
Scientific method and selection techniques. (H. S. Arms; K. Metzer; R. Lemoine) . . . 239, 326
Courses for the Graduateship examination . . . 300
Craftsmanship and draughtsmanship competition 1962, The . . . 79
Development in Vehicle and Street Lighting, by V. J. Jehu . . . 269
Education in nuclear energy . . . 232
Education in vacuum science and technology . . . 287
Eighth international conference on low temperature physics . . . 85
Elections to the Royal Society . . . 120
Forthcoming Institute and Society meetings . . . 24, 56, 89, 121, 131, 184, 228, 248, 288, 301, 327
Graduateship examination 1962, The . . . 251
Graduateship examination papers . . . 324
Group scheme of insurance for Institute and Society members . . . 121, 299
Harrogate convention . . . 41, 85, 89, 131, 132, 200
Health physics, radiation protection . . . 180
Higher Education in Physics . . . 33
High speed photography . . . 180
Holweck medal and prize . . . 179
Home counties visit to road research laboratory . . . 41
Institute and Society appointments and awards . . . 11
Institute and Society awards for 1963 . . . 120, 179
Institute and Society's Meetings, The, by H. R. Lang . . . 322
International Conference on the Physics of Semiconductors, Exeter, July 1962, by J. R. Drabble . . . 277
Laboratory and Workshop Notes, 1959–61 . . . 241
Languages for scientists . . . 132
Leverhulme research awards—fellowships and grants, 1963 . . . 324
Limits of Perception and Measurement, by Professor A. M. Taylor . . . 189
List of members . . . 299
London and Home Counties Branch 'At Home' . . . 325
London and Home Counties Branch visit to the Central Electricity Research Laboratories . . . 325
Manuscripts accepted for publication in the Institute and Society's periodicals . . . 28, 61, 90, 122, 157, 184

	PAGE
Magnetoplasmadynamic electrical power generation	286
Mass spectrometry	212
Mathematics in Schools, by G. A. P. Wyllie	12
Maxwell medal and prize	286
Modern Magnetic Materials, by K. Hoselitz	107
Modern Physics Teaching and the Transition from School to University, by G. A. P. Wyllie	319
Musical Scales—Their Characteristics and Appreciation, by M. Milbourn	42
National Certificate examination papers	41
National Certificates in Applied Physics: 1962 examinations	302
New Look for School Physics, A, by N. Clarke	1
News of members	83, 227, 338
New Scottish Syllabuses and Examinations in School Physics, by D. McGill	72
New Year's honours list	11
New Zealand Branch	179
Nominations for honorary fellowship	179
Nominations for members of Council	119
Nuffield science teaching project, The	198
Parsons memorial lecture, 1963	299
Passport recommendations	121
Payment of annual fees	11, 234
Payment of subscriptions	85
Physics in Archaeology, by G. N. Fowler	165
Physics in Girls' Schools, by Sister St. Joan of Arc	9
Physics, Metaphysics and Theology in the Twentieth Century, by J. Wren-Lewis	313
Physics of the welding arc	286
Postdoctorate fellowships	299
Preparation of Papers Accepted for Publication in the Institute and Society's Journals, by A. C. Stickland	219
Presentation of the 1961 Simon memorial prize	240
Problem of Conference Reports, The, by J. M. Ziman	196
Proceedings of the Exeter conference on semiconductors	285
Proceedings of the international conference on the ionosphere	299
Publications of the I.E.E.	299
Radiation hazards	180
Register, The	57, 113, 176, 229, 309
Reports of the Council of the Institute and Society for the year 1961	133
Reviews of books—	
Analytic Geometry and Calculus. (L. J. Adams and P. A. White)	53
American Degree, The. (B. Mellor)	209
Art of Answering Examination Questions, The. (S. Lewin)	334
Astronomical Spectroscopy. (A. D. Thackeray)	226
Atmospheric Diffusion. (F. Pasquill)	221
Atomic Spectra. (H. G. Kuhn)	205
Atoms and Men. (L. Leprince-Ringuet)	335
Atoms and the Universe. (G. O. Jones, J. Rotblat, G. J. Whitrow)	304
Automat und Mensch. (K. Steinbuch)	157
Ballistic Missile and Space Vehicle Systems. (H. S. Seifert and K. Brown)	281
Basic Data of Plasma Physics. (S. C. Brown)	304
Basic Physics of the Solar System. (V. M. Blanco and S. W. McCuskey)	207
Basic Principles of Electronics and Telecommunications. (M. D. Armitage)	208
Chosen Few, The. (W. D. Furneaux)	182
Classical Electricity and Magnetism, Second Edition. (W. K. H. Panofsky and M. Phillips)	246
Collected Works of Irving Langmuir, The. (General Editor Guy Suits):	
Volume 7. Protein Structures	86
Volume 8. Properties of Matter	86
Volume 9. Surface Phenomena	86
Concise Physics for Ancillary Degree Students. (R. B. Morrison)	307
Correspondence of Isaac Newton, Part III, 1688–94, The. (Edited by H. W. Turnbull)	204
Course of Mathematics for Engineers and Scientist, A, Volume I. (B. H. Chirgwin and C. Plumpton)	53
C.R.C. Standard Mathematical Tables	188
Development of Scientific Method, The. (W. S. Fowler)	308
Dictionary of Mathematics. (C. C. T. Baker)	306
Direct Methods in Crystallography. (M. M. Woolfson)	206
Discovery	53
Dynamics of a System of Rigid Bodies, Part I. (E. J. Routh)	156
Dynamics of Rigid Bodies. (W. D. MacMillan)	156
Electromagnetic Waves. (Edited by R. E. Langer)	247
Electronics as a Career. (H. F. Trewman)	211
Elementary Particles. (Chen Nign Yand)	157
Elements of Dynamic Meteorology. (A. H. Gordon)	223
Elements of Structural Metallurgy. (W. Hume-Rothery)	244
Encyclopaedia of Electronics, The. (Edited by C. Susskind)	322
Encyclopaedia of Miscroscopy. (Edited by G. I. Clarke)	21
Encyclopaedia of Spectroscopy. (Edited by G. I. Clarke)	20
Engineering Materials Science. (C. W. Richards)	117
Fact and Theory in Cosmology. (G. C. McVittie)	207
Famous Physicists. (A. L. Mann and A. C. Vivian)	304
Flow of Rarefied Gases. (S. A. Schaaf and P. L. Chambre)	210

PAGE

Forces and Fields. (Mary B. Hesse) . . . 86
Foreign Language Barrier in Science and Technology. (C. W. Hanson) . . . 335
Fundamental Formulas of Physics, Volumes I and II. (Edited by D. H. Menzel) . . . 225
Fundamental Physics of Gases. (K. F. Herzfeld, V. Griffing, J. O. Hirschfelder, R. B. Bird, C. F. Curtiss, E. L. Spotz) 210
Fundamentals and Techniques of Mathematics for Scientists. (M. N. Nicholson) . . . 305
Fundamentals of Electrical Measurements. (C. T. Baldwin) . . . 52
Fundamentals of Electronics. (E. N. Lurch) . . . 331
Fundamentals of Modern Physics. (R. M. Bisberg) . . . 331
General Studies in Technical Colleges . . . 334
Gesammelte Schriften und Vorträge. (Max von Laue) . . . 221
Handbook of Chemistry and Physics . . . 22
Hundred Million Lives: Maximum Survival in Nuclear War, A. (R. Fryklund) . . . 332
Industrial Research in Britain. (Edited by E. W. Haslett) . . . 224
Introduction to Computational Methods, An. (K. A. Redish) . . . 22
Introduction to Elementary Particles, An. (W. S. C. Williams) . . . 333
Introduction to Geometry. (H. S. M. Coxeter) . . . 211
Introduction to Linear Network Analysis, An. (P. S. Farago) . . . 211
Introduction to Statistical Communications Theory. (D. Middleton) . . . 22
Inspiration of Science. (Sir George Thomson) . . . 19
Ionization X-Ray Equipment for Research on Crystalline Materials at Various Temperatures. (P. F. Konovalov, A. I. Efremov and R. V. Volkonskii) . . . 246
Ionizing Radiations. An Old Hazard in a New Era. (G. Tievsky) . . . 333
Ionizing Radiations: Precautions for Industrial Users. (Safety Health and Welfare—New Series. No. 13) . . . 336
Laboratory Experiments for Physics and Chemistry: A Unified Approach, Book II. (J. C. Hogg, C. L. Bickel and R. F. Brownell, Jr.) . . . 308
Laennec: His Life and Times. (R. Kervran) . . . 181
Lectures in Theoretical Physics, Volume III. (Edited by W. E. Brittin, B. W. Downs and J. Downs) . . . 86
Long Range Ballistic Missiles. (E. Burgess) . . . 281
Management and Control of Research and Development . . . 208
Mathematical Methods for Technologists. (Arranged by M. N. Strain) . . . 221
Mathematical Methods for Science Students. (G. Stephenson) . . . 205
Mathematics and Industry. (J. Crank) . . . 305
Mathematics for Physicists and Engineers. (O.E.C.D.) . . . 305
Mesures Electriques. (Continu et Basse Fréquence) [J. Baurand] . . . 87
Metallurgy in the Service of Man. (W. H. Dennis) . . . 244
Modern Philosophies of Education. (J. S. Brubacher) . . . 280
Modern Physics. (D. E. Caro, J. A. McDonell and B. M. Spicer) . . . 336
Modern Physics, Second Edition. (F. W. Van Name) . . . 283
Modern Physics Buildings. (R. R. Palmer and W. M. Rice) . . . 330
Modern Science and its Philosophy. (P. Frank) . . . 337
Modern University Physics. (J. A. Richards, F. W. Sears, M. R. Wehr and M. W. Zemansky) . . . 181
Nature of Physical Knowledge, The. (Edited by L. W. Friedrich) . . . 242
Newnes Concise Encyclopaedia of Electrical Engineering. (Edited by Professor M. G. Say) . . . 283
New World, 1939/46. Volume I of the History of the United States Atomic Energy Commission, The. (R. G. Hewlett and O. E. Anderson, Jr.) . . . 328
Nuclear Engineering Monographs—Fast Reactors. (R. G. Palmer and A. Platt) . . . 22
Nuclear Reactor Instrumentation. (M. W. Jervis) . . . 246
Nuclear Sizes. (L. R. B. Elton) . . . 51
Numerical Analysis. (Z. Kopal) . . . 53
Numerical Methods for Scientists and Engineers. (R. W. Hamming) . . . 305
Opportunity Unlimited. (M. Clifton) . . . 335
Optical Microscope Technique. (D. Birchen) . . . 155
Origins of Scientific Thought, The. (G. de Santillana) . . . 333
Particle Accelerators. (M. S. Livingston and J. P. Blewett) . . . 243
Perils of Leadership in Science, The. (Sir Lindor Brown) . . . 226
Philosophical Impact of Contemporary Physics, The. (M. Capek) . . . 242
Photoelasticity. Principles and Methods. (H. T. Jessop and F. C. Harris) . . . 212
Physical Basis of Polarized Emission, The. (P. P. Feofilov) . . . 245
Physical Chemistry. (E. A. Moelwyn Hughes) . . . 21
Physical Mechanics, Third Edition. (R. B. Lindsay) . . . 118
Physical Science: Men and Concepts. (G. C. Omer, Jr., H. L. Knowles, B. W. Mundy and W. H. Yoho) . . . 307
Physician's Introduction to Electronics, A. (A. C. Morris, Jr.) . . . 210
Physics and Archaeology. (M. J. Aitken) . . . 87
Physics and Chemistry—A unified approach, Volume II. (J. C. Hogg, C. L. Bickel and E. P. Little) . . . 207
Physics and Politics. (Max Born) . . . 224
Physics and Techniques of Electron Tubes, Volume I—Principles of Vacuum Techniques. (R. Champeix) . . . 245
Physics for Electrical Engineers. (W. P. Jolly) . . . 206
Physics for the Inquiring Mind. (E. M. Rogers) . . . 50
Physics for Medical Students. (J. S. Rogers) . . . 225
Physics of Chemical Structure. The. (R. J. Taylor) . . . 308
Physics of the Nucleus. (M. A. Preston) . . . 328
Plasma State, The. (E. J. Hellund) . . . 183
Practical Metrology, Volume IV. (K. J. Hume and G. H. Sharp) . . . 210
Principles of Physics. (E. S. Greene) . . . 282
Principles of Vacuum Engineering. (M. Pirani and J. Yarwood) . . . 222
Proceedings of the Second International Conference on Operational Research, The. (Edited by J. Banbury and J. Maitland) . . . 156

	PAGE
Progress in Astronautics and Rocketry, Volume VII. Hypersonic Flow Research. (Edited by F. R. Riddell)	330
Progress in Biophysics and Biophysical Chemistry, Volume II. (Edited by J. A. B. Butler, D. Katz and R. E. Zirkle)	183
Progress in Microscopy. (M. Françon)	282
Progress in the Astronautical Sciences, Volume I. (Edited by S. F. Singer)	281
Release and Use of Atomic Energy, The. (T. E. Allibone)	208
Roger Joseph Boscovich. (Edited by L. L. Whyte)	155
Sciences in Communist China. (Edited by S. H. Gould)	204
Scientific Thinking and Scientific Writing. (M. S. Peterson)	243
Soviet Power. (J. A. Hodgkins)	246
Space and the Atom. (Edited by S. T. Butler and H. Messell)	23
Spectroscopy, Volume I—Atomic, Microwave and Radio-Frequency Spectroscopy. (S. Walker and H. Straw)	50
Static Fields in Electricity and Magnetism. (D. H. Trevena)	87
Statistical Theories of Turbulence. (C. C. Lin)	210
Surface Activity. (R. J. Taylor)	308
Synopses for Modern Secondary School Mathematics. (O.E.C.D.)	305
Tables of Integals. (H. B. Dright)	183
Theory of Direct Nuclear Reactions. (W. Tobocman)	182
Thermodynamics with Quantum Statistical Illustrations. (P. T. Landsberg)	19
Thermoelectricity: An Introduction to the Principles. (D. K. C. MacDonald)	283
Third Law of Thermodynamics, The. (J. Wilks)	51
Tides, The (G. H. Darwin)	336
Tools of Biological Research. (Edited by H. J. B. Atkins)	23
Trachtenberg System of Basic Mathematics, The. (Translated and adapted by A. Cutler and R. McShane)	284
Turbulent Flow. (G. B. Schubauer and C. M. Tchen)	210
Unpublished Scientific Papers of Isaac Newton. (Edited by A. R. Hall and M. B. Hall)	280
Validation of Scientific Theories, The. (Edited by P. G. Frank)	284
Vision of Nature, The. (Sir Cyril N. Hinshelwood)	209
Vistas in Astronomy, Volume IV. (Edited by Arthur Beer)	245
Wave Mechanics of Elections in Metals, The. (S. Raimes)	155
Werner Heisenberg und die Physik Unserer Zeit. (F. Bopp)	225
World of Leonardo Da Vinci, The. (Ivor B. Hart)	154
Yearbook of Astronomy (1962). (Edited by J. G. Porter and P. Moore)	224
Royal Society Leverhulme visiting professors	324
Rutherford Jubilee International Conference, The, by W. R. Phillips	14
Rutherford memorial lecture	85, 179
Seminar on neutron beam research in solid state physics	131, 181, 220
Science, Technology, and Civilization, by Professor R. V. Jones	97
Scientific education of physicists, The	41
Scientific Method, by J. J. Sparkes	289
Scientific Method and Selection Techniques, by R. Lemoine	170
Some Desirable Changes in School Physics Teaching, by C. B. Spurgin	104
Some Thoughts on the Teaching of Science, by R. A. R. Tricker	47
Subscriptions of members of long standing	11, 121, 299
Summer institute in plasma physics	85
Symposium on measurements for protection against radiation	285
the metabolism of biologically important radio nuclides	325
provision of health physic services: problems and organization	121
standardization in non-destructive testing	232
the discovery of the neutron	199
the physics of graphite-moderate reactors	88
the rheology of emulsions	131
Summer vacation	199
Teaching of Modern Physics in Schools, The, by J. W. Lewis	6
Teaching of Physics, The, by Professor A. M. Taylor	295
Technical and scientific register	287
Third anniversary meeting in London	286
Thomson lecture of The Society of Instrument Technology, The	232
Traffic Management in London, by C. Charlesworth	65
Transfer and application fees	121
University Applied Physics Department, A, by Professor D. A. Wright	129
Viscosity and its Measurements	240
Viscosity and visco-elasticity of inorganic and organic glasses, The	324
Work of the Physics Panel of the Science and Education Committee of the S.M.A./A.W.S.T., The, by E. W. Tapper	75

AUTHORS

Charlesworth, G., Traffic Management in London	65
Clarke, N., A New Look for Schools Physics	1
Drabble, J. R., International Conference on the Physics of Semiconductors, Exeter, July 1962	277
Fowler, G. N., Physics in Archaeology	165
Hoselitz, K., Modern Magnetic Materials	107
Hughes, I. S., Bubble Chambers and other Visual Techniques in Nuclear Physics	213
Jehu, V. J., Developments in Vehicle and Street Lighting	269
Jones, R. V., Science, Technology, and Civilization	97
Lang, H. R., The Institute and Society's Meetings	322

PAGE

LEMOINE, R., Scientific Method and Selection Techniques 170
LEWIS, J. W., The Teaching of Modern Physics in Schools 6
LORD, B. E., The American Physical Science Study Committee Course 3
MACKAY, A. L., Background to Science in Japan 233
MCGILL, D., New Scottish Syllabuses and Examinations in School Physics 72
MILBOURN, M., Musical Scales—Their Characteristics and Appreciation 42
PHILLIPS, W. R., The Rutherford Jubilee International Conference 14
RITCHIE, W. R., The American Physical Science Study Committee Course 3
SISTER ST. JOAN OF ARC, Physics in Girl's Schools 9
SPARKES, J. J., Scientific Method 289
SPURGIN, C. B., Some Desirable Changes in School Physics Teaching 104
STICKLAND, A. C., Preparation of Papers Accepted for Publication in the Institute and Society's Journals 219
TAPPER, E. W., The Work of the Physics Panel of the Science and Education Committee of the SMA/AWST 75
TAYLOR, A. M., Limits of Perception and Measurement 189
TAYLOR, A. M., The Teaching of Physics 295
THOMPSON, N., Conference on The Teaching of Solid State Physics 235
TRICKER, R. A. R., Some Thoughts on the Teaching of Science 47
WILMORE, A. P., The British Program of Space Research 17
WREN-LEWIS, J., Physics, Metaphysics and Theology in the Twentieth Century 313
WRIGHT, D. A., A University Applied Physics Department 129
WYLLIE, G. A. P., Mathematics in Schools 12
WYLLIE, G. A. P., Modern Physics Teaching and the Transition from School to University 319
ZIMAN, J. M., The Problem of Conference Reports 196

PRINTED IN GREAT BRITAIN BY UNWIN BROTHERS LIMITED, WOKING AND LONDON